



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Hartman Windows and Doors, LLC

531 Southern Blvd.

West Palm Beach, FL 33405

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "American" Outswing Wood Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 08-25, titled "American Outswing Wood Casement Wdw. (L.M.I.)", sheets 1 through 7, dated 03/13/08, with revision dated 05/16/12, prepared by Al -Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises and renews NOA# 08-0326.13 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
8/13/12

NOA No. 12-0614.04
Expiration Date: March 26, 2018
Approval Date: August 23, 2012
Page 1

Hartman Windows and Doors, LLC

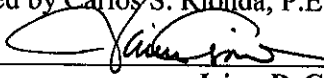
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections. *(Submitted under NOA#08-0326.13)*
2. Drawing No. 08-25, titled "American Outswing Wood Casement Wdw. (L.M.I.)", sheets 1 through 7, dated 03/13/08, with revision dated 05/16/12, prepared by Al -Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of American and Contura mahogany outswing single casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5573**, dated 03/10/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA#08-0326.13)
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of American and Contura mahogany outswing double casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5563**, dated 03/10/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA#08-0326.13)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of American and Contura mahogany outswing double casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5561**, dated 03/08/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA#08-0326.13)
4. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of American and Contura mahogany outswing (XOX) casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5531**, dated 03/08/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA#08-0326.13)


Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 12-0614.04
Expiration Date: March 26, 2018
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5. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of American and Contura mahogany outswing single casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5530**, dated 03/06/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA#08-0326.13)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, prepared by Al-Farooq Corporation, dated 05/11/12, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Butacite® PVB Interlayer" dated 09/08/11, expiring on 12/11/16.

F. STATEMENTS

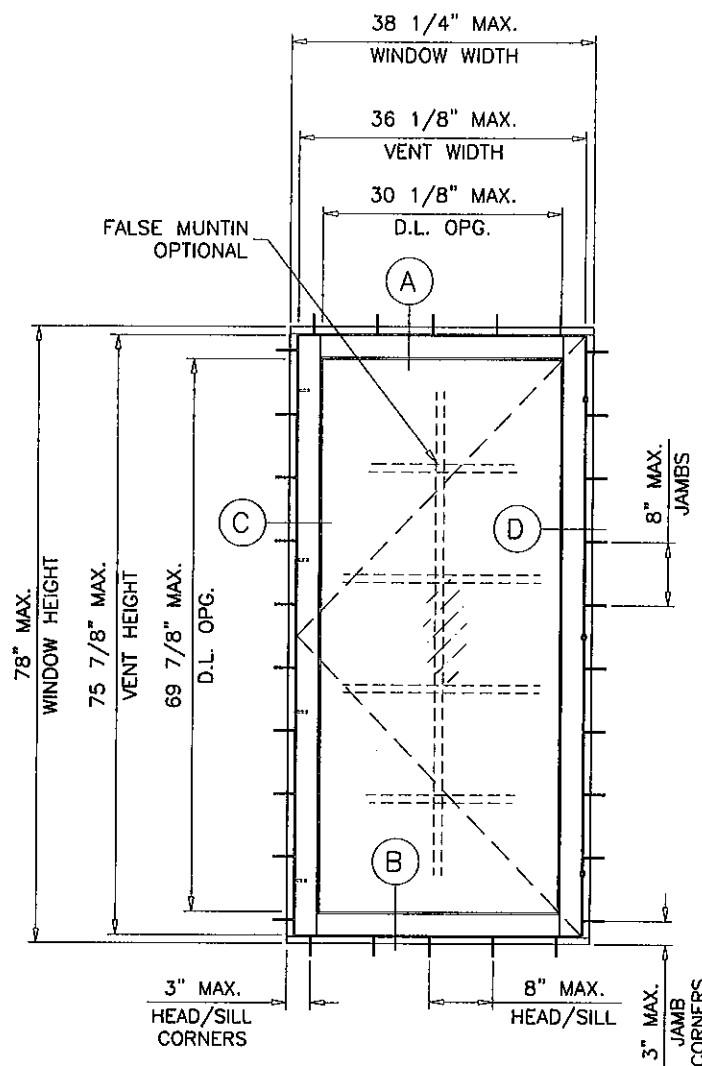
1. Statement letter of conformance, complying with FBC 2010, dated May 11, 2012, signed and sealed by Javad Ahmad, P.E.
2. Statement letter of no financial interest, dated May 11, 2012, signed and sealed by Javad Ahmad, P.E.
3. Laboratory compliance letters for Test Report No. FTL- 5573, FTL- 5563, FTL- 5561, FTL- 5531, FTL- 5530, issued by Hurricane Test Laboratory, Inc., dated March 10, 2008, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under previous NOA# 08-0326.13)

G. OTHERS

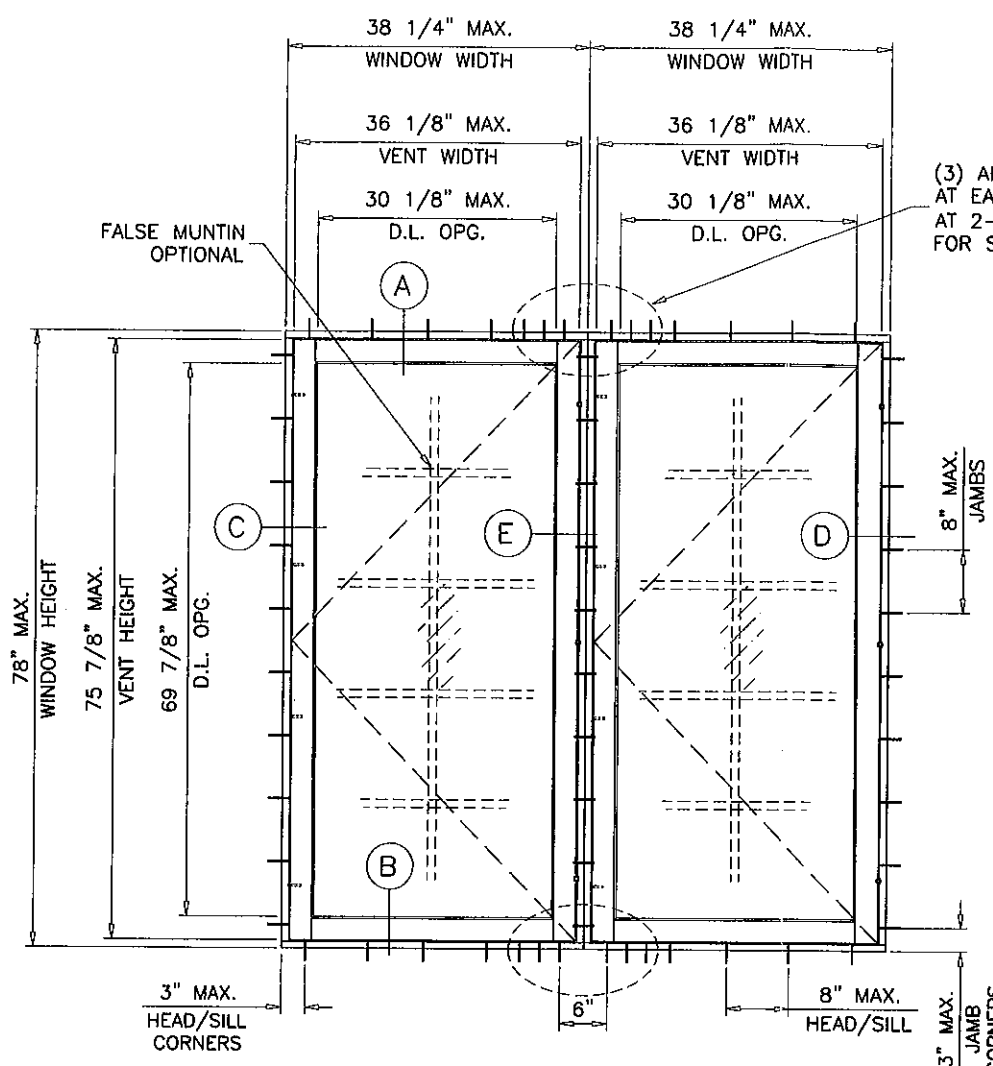
1. Notice of Acceptance No. **08-0326.13**, issued to Hartman Windows and Doors, LLC for their Series "American" Outswing Wood Casement Window – (L.M.I.), approved on 04/24/08 and expiring on 03/26/13.



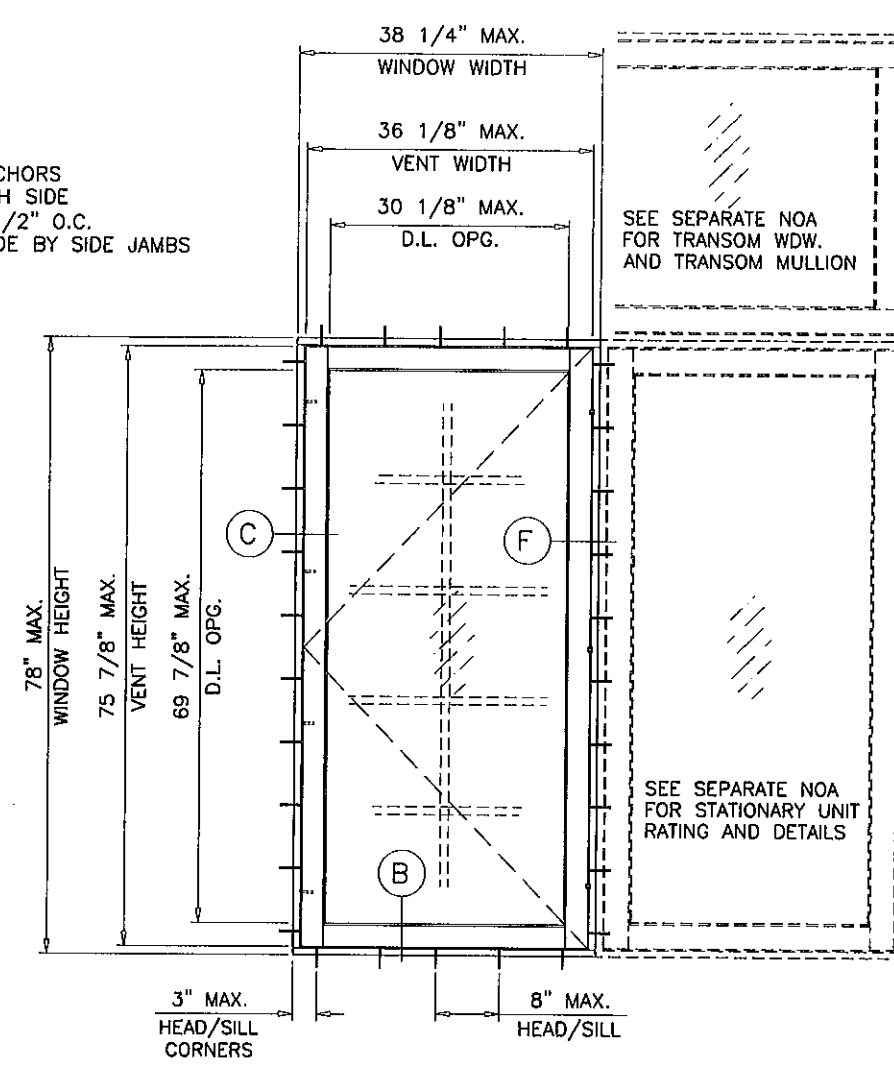
Jaime D. Gascon, P.E.
Product Control Section Supervisor
NOA No. 12-0614.04
Expiration Date: March 26, 2018
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SINGLE VENT (X)



SIDE BY SIDE (X-X)

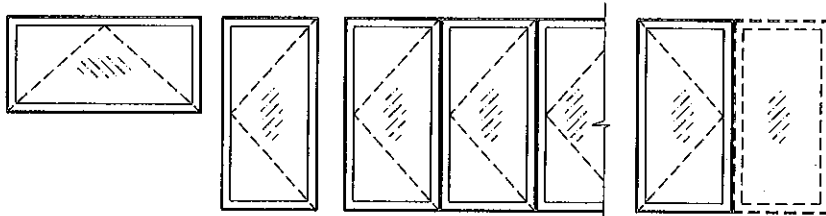


SIDE BY SIDE (X-O)

SERIES AMERICAN

OPEN OUT WOOD CASEMENT WINDOW

APPROVAL APPLIES TO SINGLE CASEMENT WINDOWS.
ALSO SIDE BY SIDE COMBINATIONS OF CASEMENT/CASEMENT
OR CASEMENT/STATIONARY UNITS IN MODULES OF TWO OR
MORE WINDOWS.
WINDOWS CAN BE ORIENTED VERTICALLY OR HORIZONTALLY.



THESE WINDOWS CAN ALSO BE INSTALLED IN COMBINATION
WITH MIAMI-DADE COUNTY APPROVED PRODUCTS USING
MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN.
LOWER DESIGN PRESSURES FROM WINDOWS, DOORS OR MULLION
APPROVAL WILL APPLY TO ENTIRE SYSTEM.

RECTANGULAR SHAPES

SINGLE VENT WINDOWS (X)

SIDE BY SIDE COMBINATIONS OF (X) & (X)

MAXIMUM DESIGN LOAD RATING = + 90.0 PSF
(FOR SIZES SHOWN OR SMALLER) - 90.0 PSF

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE
REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY
HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER
LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS
EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE
NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT
COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE
REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

(3) ANCHORS
AT EACH SIDE
AT 2-1/2" O.C.
FOR SIDE BY SIDE JAMBS

SEE SEPARATE NOA
FOR TRANSOM WDW.
AND TRANSOM MULLION

SEE SEPARATE NOA
FOR STATIONARY UNIT
RATING AND DETAILS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0614-04
Expiration Date 3/26/2018
By: [Signature]
Miami Dade Product Control

MAY 31 2012

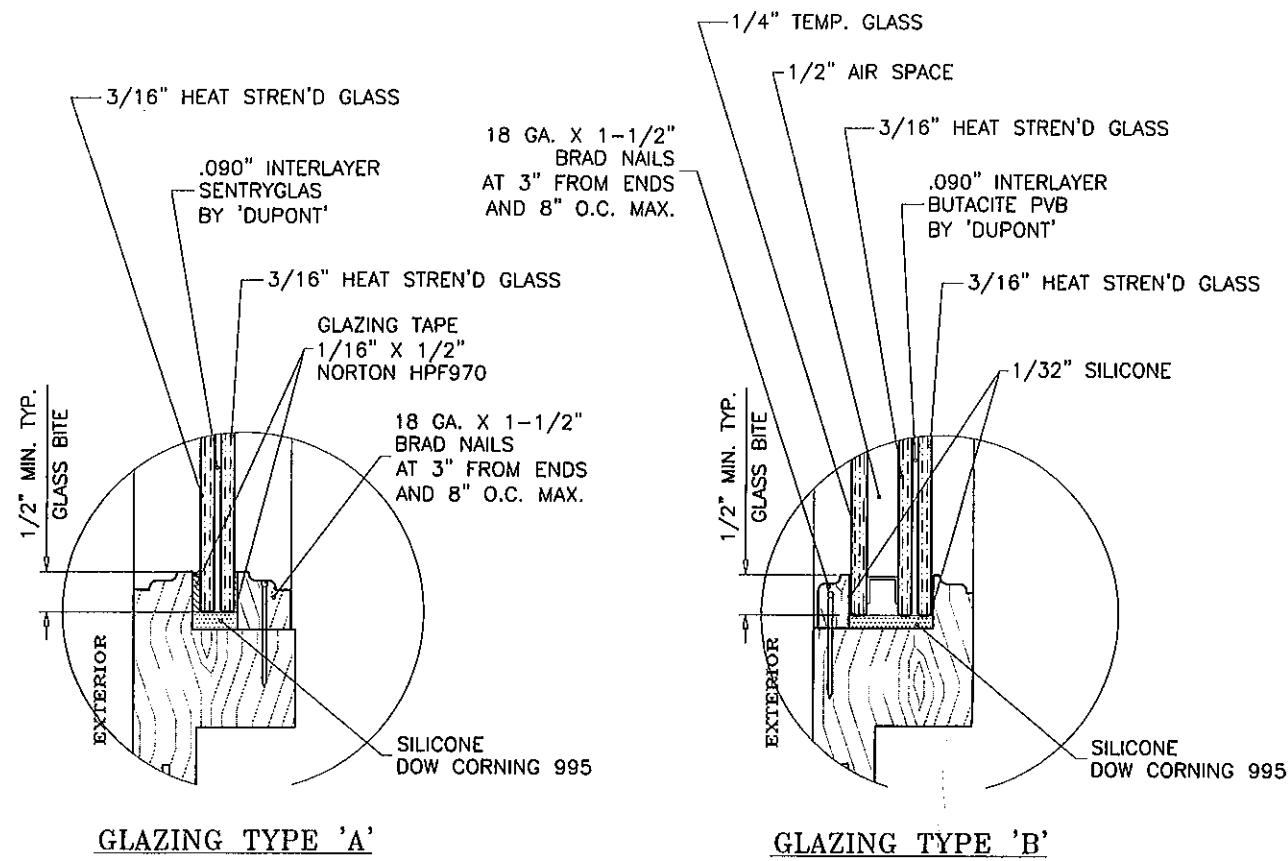
af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W08-25HWD

AMERICAN OUTSWING WOOD CASEMENT WDW. (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

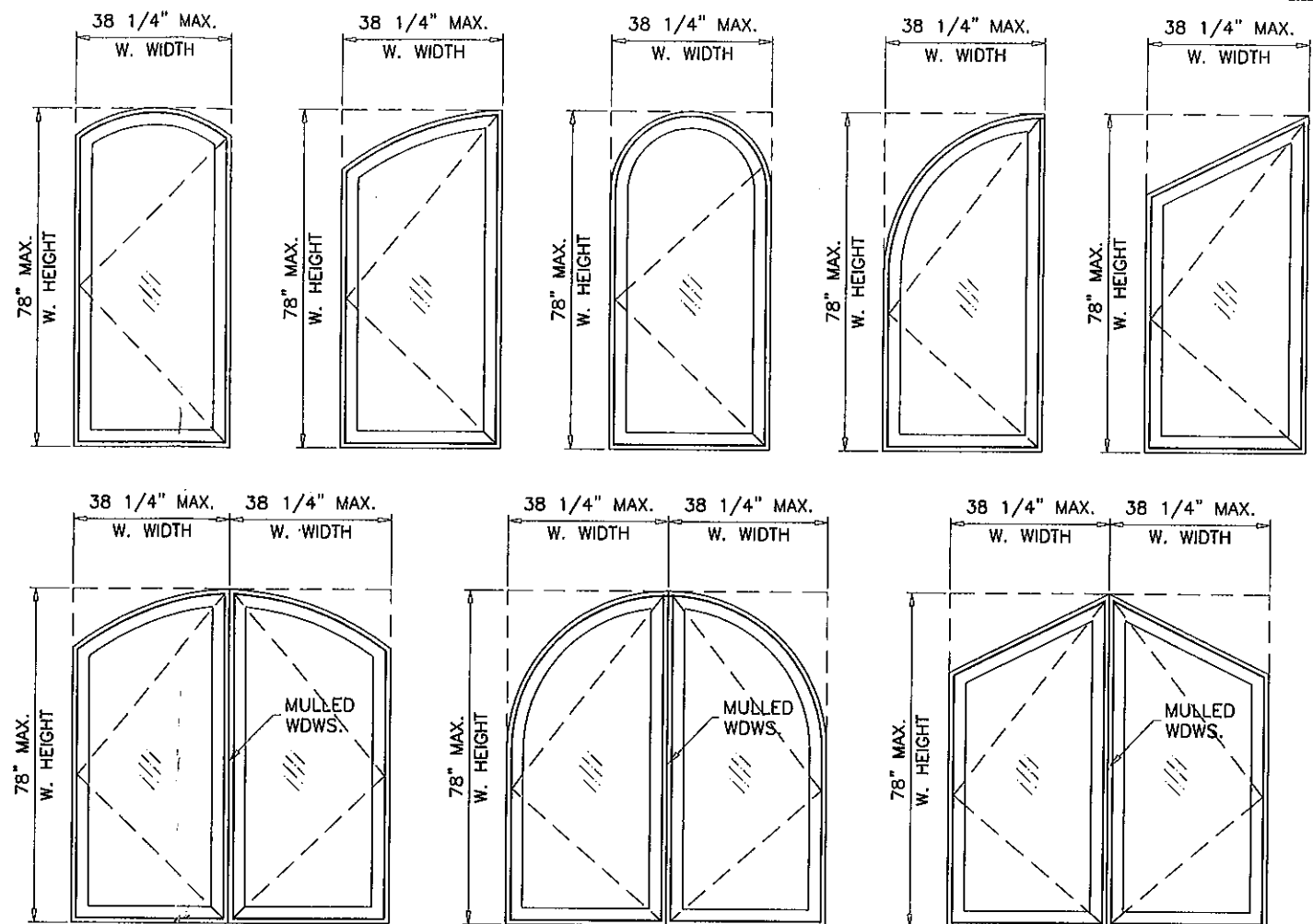
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date:	03-13-08
scale:	1/2" = 1'-0"
dr. by:	HAMID
chk. by:	

drawing no.
W08-25
sheet 1 of 7



GLAZING OPTIONS



ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE VERIFIED BY INSCRIBING WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.

LOCKS:

3 POINT LOCK SYSTEM WITH KEEPERS BY 'TRUTH' SURFACE MOUNT ACTIVATING HANDLE AT 9" FROM BOTTOM FASTENED WITH (2) #8 X 1-1/4" FH MS. SURFACE MOUNT METALLIC KEEPERS FACING LOCKS EACH FASTENED WITH (2) #8 X 1-1/4" FH SMS KEEPERS AT JAMB AT 8", 36-1/2" & 66" FROM BOTTOM

OPERATOR:

SURFACE MOUNT ROTO OPERATOR BY 'TRUTH' AT FRAME SILL, FASTENED WITH (7) #8 X 1-1/4" FH SMS
11-3/8" LONG STEEL TRACK AT VENT BOTTOM RAIL FASTENED WITH (3) #8 X 1-1/4" FH SMS

HINGES:

OPTION #1:

3-1/2" LONG METALLIC BUTT HINGES (3) PER VENT AT 9" FROM TOP & BOTTOM AND AT CENTER, FASTENED TO FRAME W/ (3) #12 X 1-1/4" FH SMS VENT W/ (3) #10 X 1" FH SMS

OPTION #2:

SURFACE MOUNT FOUR BAR METALLIC HINGE BY 'GU' (2) PER VENT, FASTENED TO FRAME W/ (3) #8 X 1" FH SMS VENT W/ (4) #8 X 1-3/4" FH SMS

SNUBBERS:

(4) 1/4" BY 1-3/8" LONG ANTI-BLOW OUT BRASS PINS AT HINGE STILE AND METALLIC GUIDES FACING PINS AT HINGE JAMB LOCATED AT 7-1/2" FROM TOP AND BOTTOM AND 21-1/2" O.C. MAX.

NON RECTANGULAR SHAPES
SINGLE VENT WINDOWS (X)
SIDE BY SIDE COMBINATIONS OF (X) & (X)
MAXIMUM DESIGN LOAD RATING = + 80.0 PSF (FOR SIZES SHOWN OR SMALLER) - 80.0 PSF

Engr: JAYAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
MAY 31 2012

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HINGES AND LOCKS CAN BE USED IN ANY COMBINATIONS

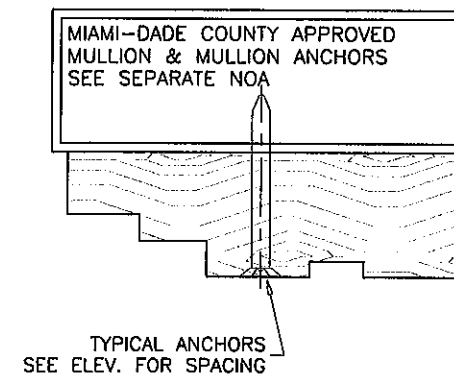
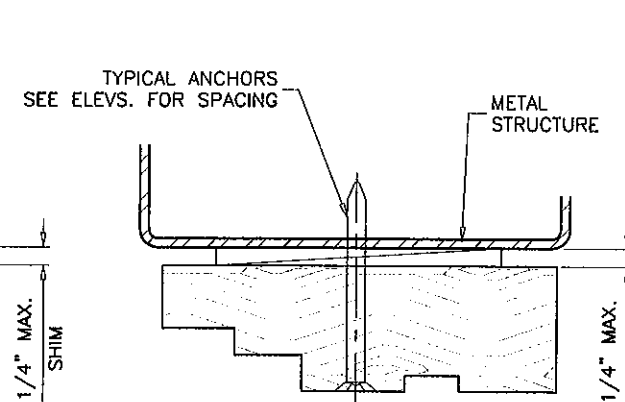
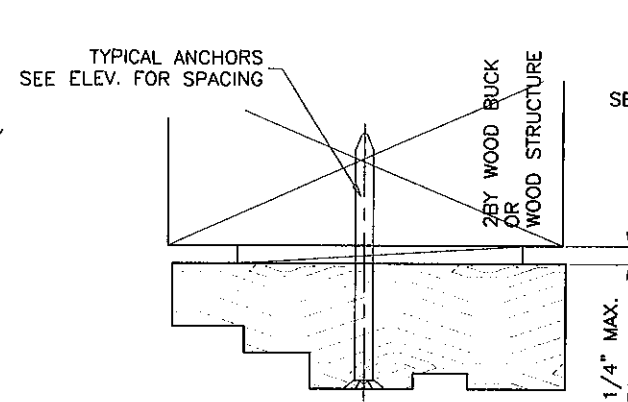
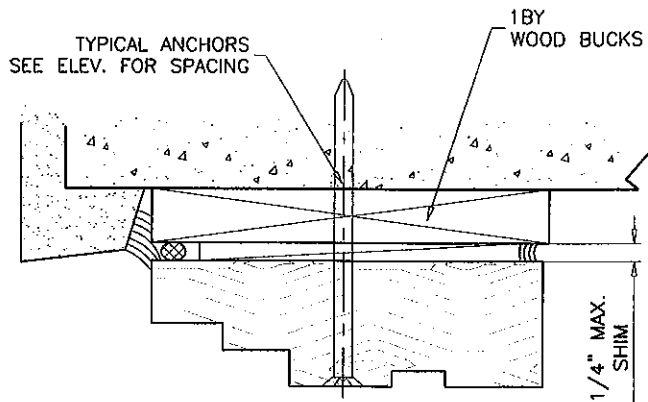
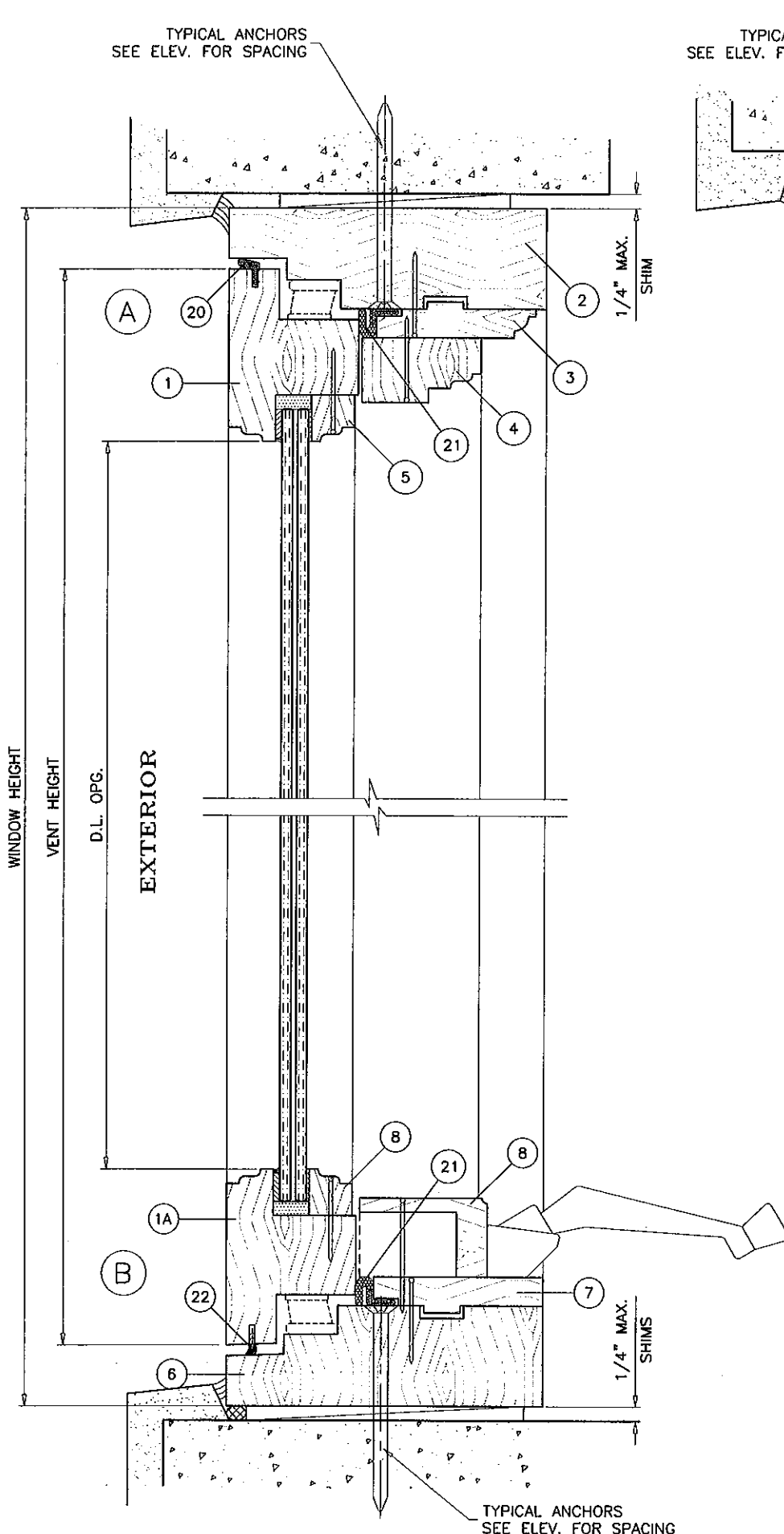
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL W08-25HWD

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no	date	by	description
A	05.16.12		UPDATED TO 2010 FBC

date: 03-13-08
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no. W08-25
sheet 2 of 7



WOOD BUCKS NOT BY HARTMAN WINDOWS, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

ANCHORS THRU WINDOW FRAME

1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHORS THRU STRAP CLIPS & ALUM ANGLE (SEE SHEET 5 FOR DETAILS)

#10 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 1-1/2" MIN. PENETRATION INTO WOOD

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 1-1/2" MIN. (UNLESS SPECIFIED)
 INTO WOOD STRUCTURE = 3/4" MIN. (UNLESS SPECIFIED)
 INTO METAL STRUCTURE = 3/4" MIN.

ANCHORS CL TO CL DISTANCE

INTO CONCRETE AND MASONRY = 3" MIN.
 INTO WOOD STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

Engr: JAVAD AHMAD
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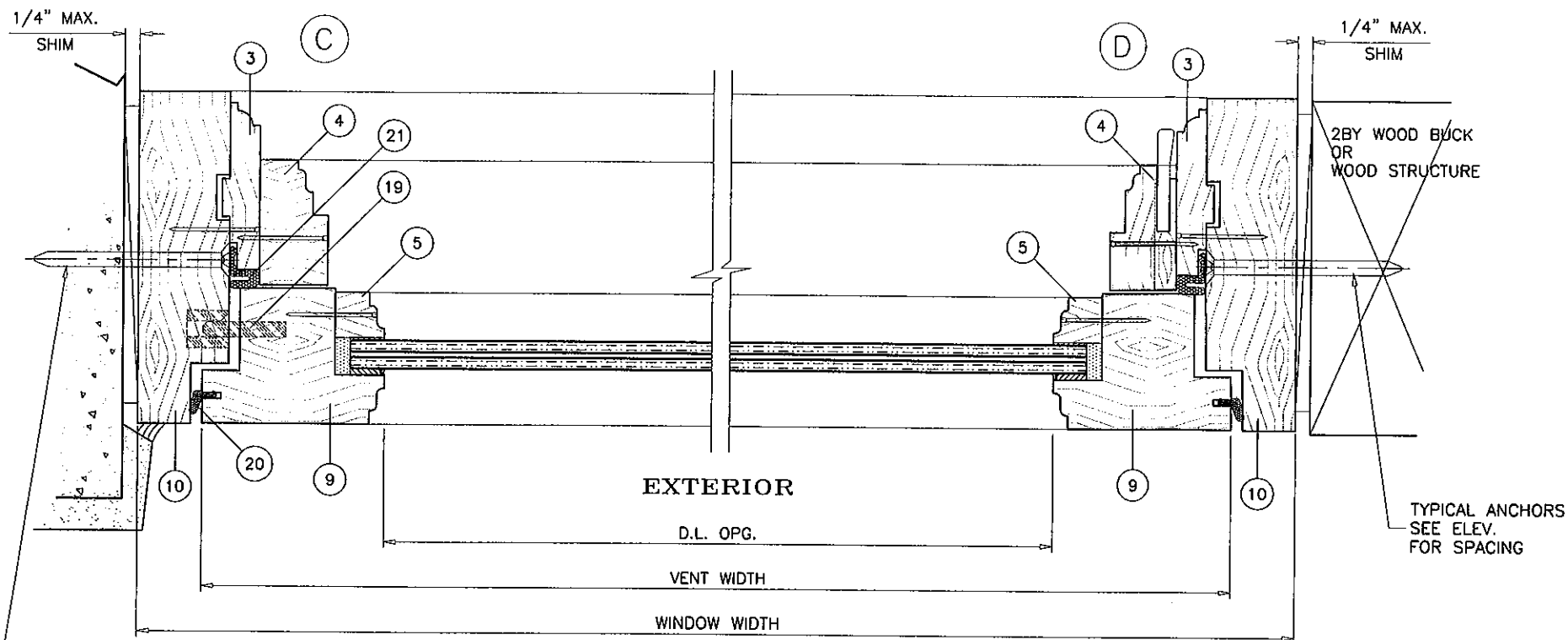
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 COMP-ANL\W08-25HWD

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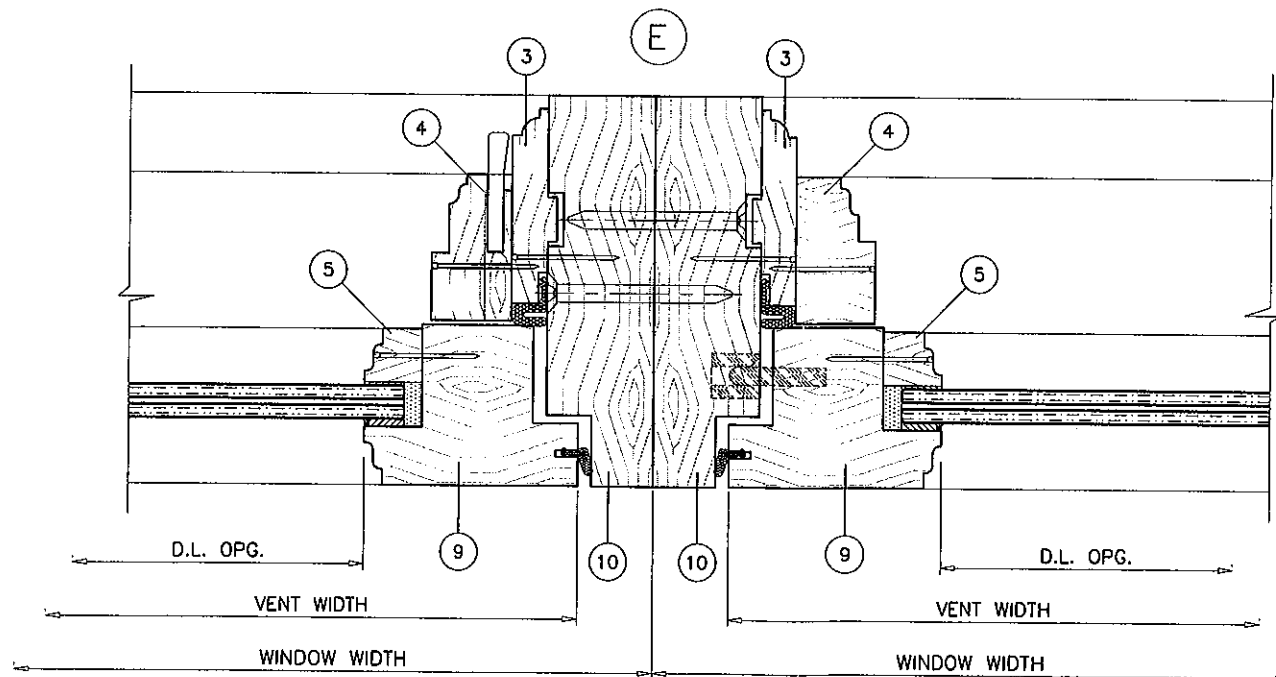
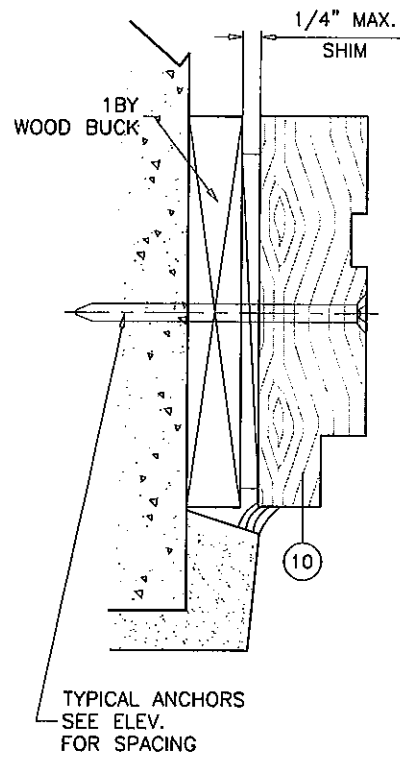
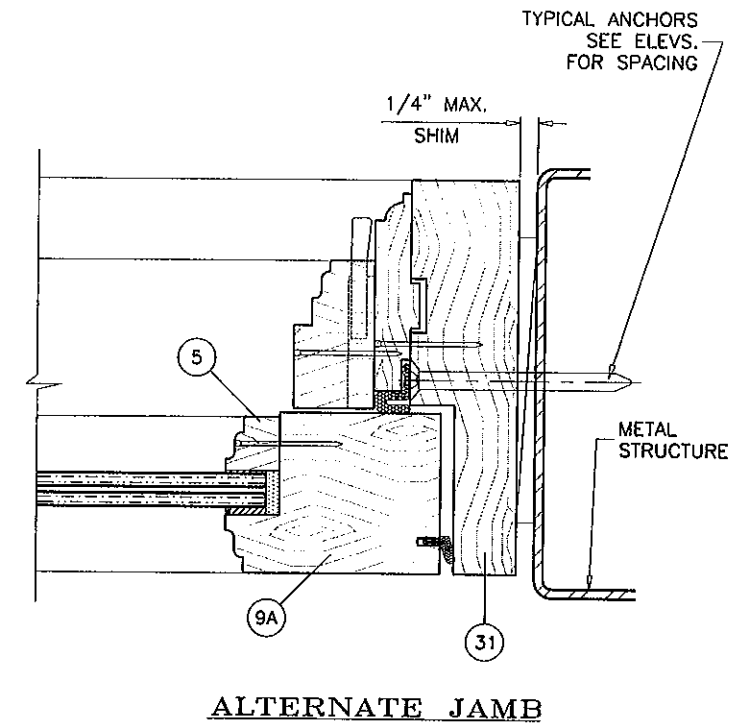
revisions:	no.	date	by	description
	A	05.16.12		UPDATED TO 2010 FBC

date: 03-13-08
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 dr. by: HAMID
 chk. by:

drawing no.
W08-25
 sheet 3 of 7



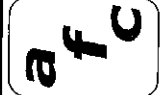
SINGLE (X)



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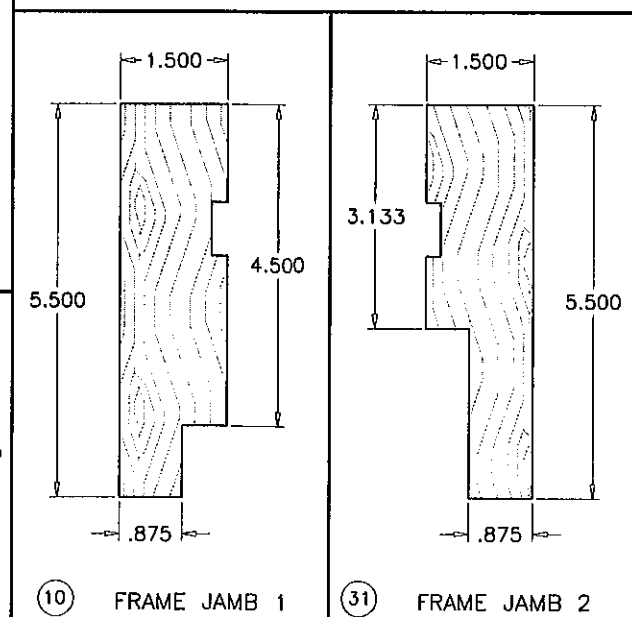
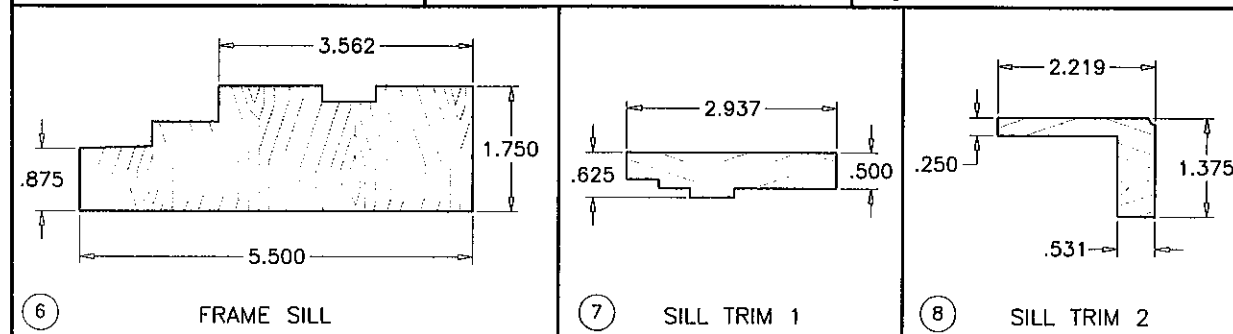
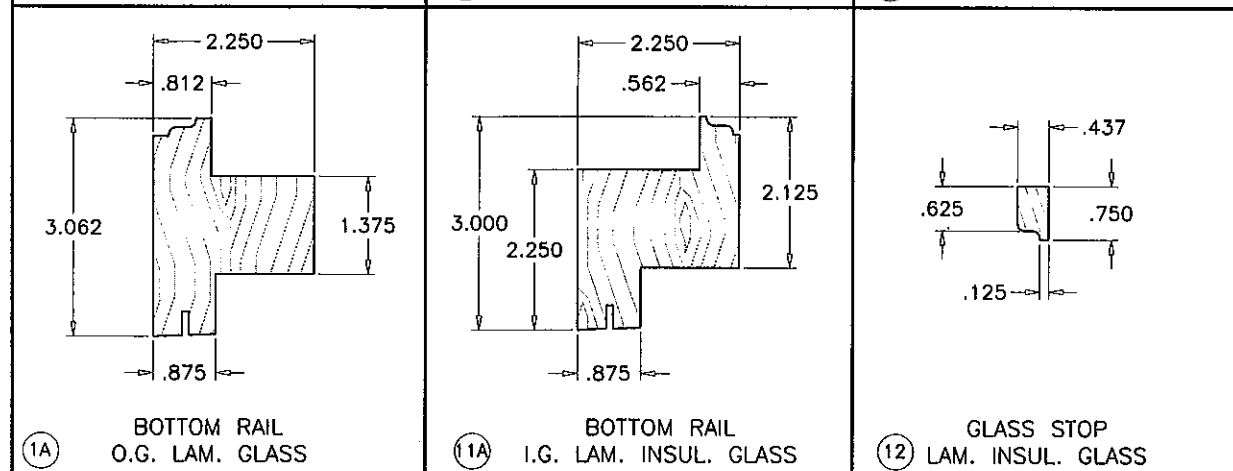
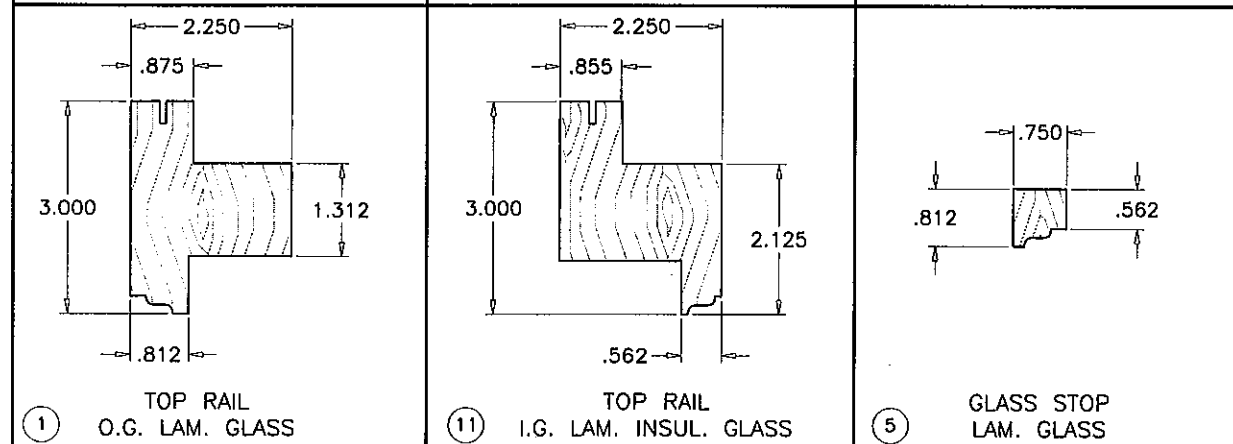
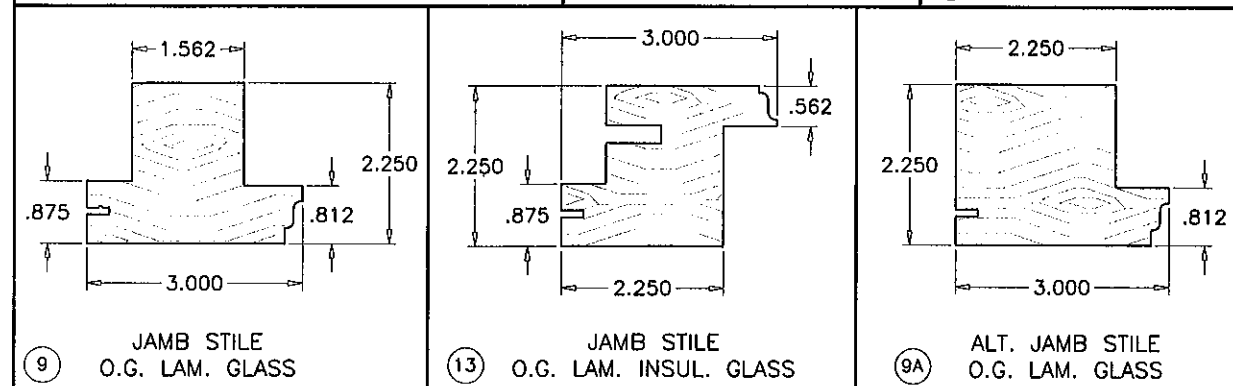
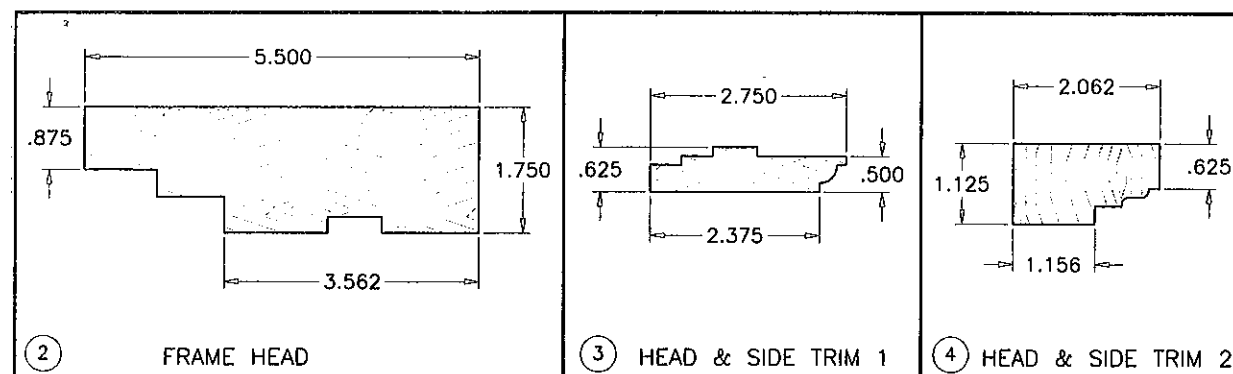
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revisions:		by	description
no	date		
A	03.16.12		NO CHANGE THIS SHEET

date: 03-13-08
scale: 3/8" = 1"
dr. by: HAMID
chk. by:

drawing no.
W08-25
sheet 4 of 7



ITEM #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	-	TOP RAIL	WOOD	MAHOGANY OR EQUAL
1A	-	BOTTOM RAIL	WOOD	MAHOGANY OR EQUAL
2	-	HEAD JAMB	WOOD	MAHOGANY OR EQUAL
3	-	HEAD & SIDE TRIM 1	WOOD	MAHOGANY OR EQUAL
4	-	HEAD & SIDE TRIM 2	WOOD	MAHOGANY OR EQUAL
5	-	GLASS STOP	WOOD	MAHOGANY OR EQUAL
6	-	SILL JAMB	WOOD	MAHOGANY OR EQUAL
7	-	SILL TRIM 1	WOOD	MAHOGANY OR EQUAL
8	-	SILL TRIM 2	WOOD	MAHOGANY OR EQUAL
9	-	SIDE STILE	WOOD	MAHOGANY OR EQUAL
10	-	SIDE JAMB	WOOD	MAHOGANY OR EQUAL
11	-	TOP RAIL IG	WOOD	MAHOGANY OR EQUAL
11A	-	BOTTOM RAIL IG	WOOD	MAHOGANY OR EQUAL
13	-	SIDE STILE IG	WOOD	MAHOGANY OR EQUAL
19	-	BRASS PIN	-	HARTMAN
20	-	QFZD 320	-	SCHLEGEL
21	-	QDS 500	-	SCHLEGEL
22	-	FIN SEAL W'STRIPPING	-	SCHLEGEL
23	-	GS 250 W'STRIPPING	VINYL	EUROPROFILI
27	-	LOCK POINT	-	GENERIC
30	-	3 1/2" X 3 1/2" BUTT HINGE	-	GENERIC
31	-	SIDE JAMB 2	WOOD	MAHOGANY OR EQUAL
32	-	SIDE STILE 2	WOOD	MAHOGANY OR EQUAL
34	-	ASTRAGAL	WOOD	MAHOGANY OR EQUAL

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

[Signature]
MAY 31 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0614-04
Expiration Date 3/26/2016

By *[Signature]*
Miguel Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP - ANL \ W08 - 25HWD

AMERICAN OUTSWING WOOD CASEMENT WDW. (L.M.I.)
HARTMAN WINDOWS & DOORS, LLC
531 SOUTHERN BLVD.
WEST PALM BEACH, FL 33405
TEL. (561) 296-9600 FAX. (561) 296-9601

revisions:		no	date	by	description
1	A	05.16.12			NO CHANGE THIS SHEET

date: 03-13-08

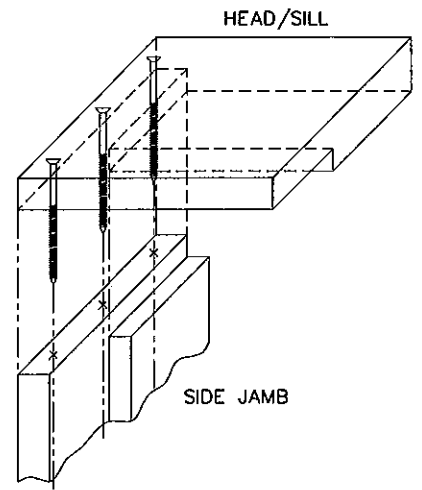
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dr. by: HAMID

chk. by:

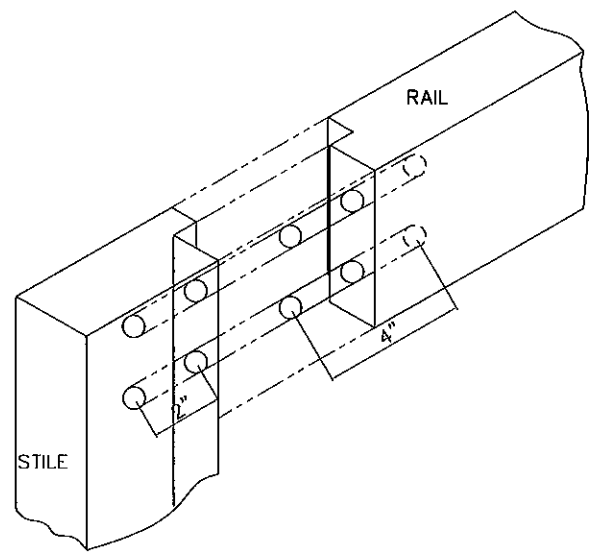
drawing no.
W08-25

sheet 6 of 7

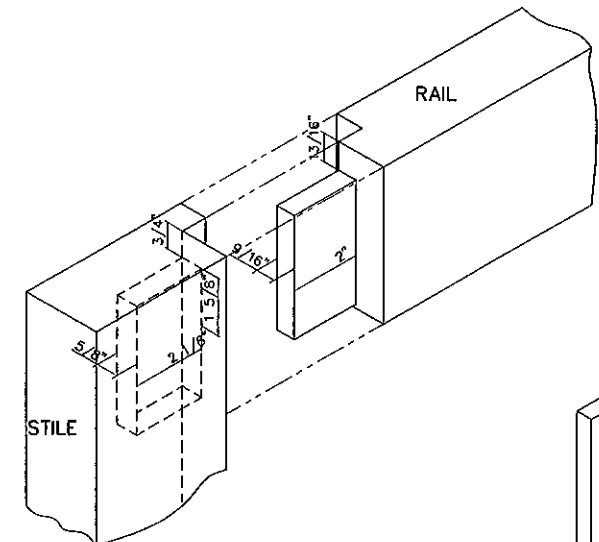


FRAME CORNERS HAVE HALF
LAP JOINT TYPICAL AT HEAD
AND SILL WITH 3 #12 BY 3
1/2" SS SCREWS AND
GLUED WITH NP1

FRAME CORNER DETAILS

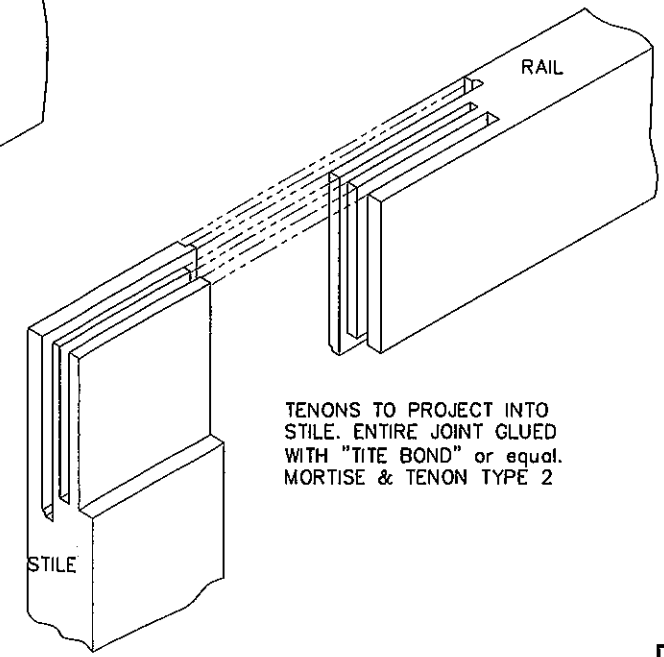


5/8" x 4" DOWEL TO PROJECT
INTO STILE. ENTIRE JOINT GLUED
WITH "TITE BOND" or equal.



9/16" THICK TENON TO
PROJECT INTO STILE. ENTIRE
JOINT GLUED WITH "TITE BOND"
or equal. MORTISE & TENON
TYPE 1

VENT CORNER DETAILS



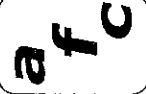
TENONS TO PROJECT INTO
STILE. ENTIRE JOINT GLUED
WITH "TITE BOND" or equal.
MORTISE & TENON TYPE 2

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

[Signature]
MAY 1 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0614-04
Expiration Date 3/26/2018

[Signature]
Miami Made Product Control



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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COMP - ANL \ W08 - 25HWD

AMERICAN OUTSWING WOOD CASEMENT WDW. (L.M.I.)
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revisions:	no.	date	by	description
	A	05.16.12		NO CHANGE THIS SHEET

date:	03-13-08	scale:	3/8" = 1"	dr. by:	HAMID	chk. by:	
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drawing no.
W08-25

sheet 7 of 7